SONY

Press Release

VGN-Z46GD/U

Hong Kong, June 1, 2009 – Sony today expanded its flagship VAIO Z with three new models – VGN-Z48GD, VGN-Z47GD and VGN-Z46GD - offering business executives and professionals the ultimate in uncompromised mobility. The remarkably portable design evolved directly from user experience, ensuring rigorous practicality behind the matchless visual appeal.

The business executive's choice

Boasting improvements both in form and function, the new VAIO Z series has a lot to offer. Performance is enhanced significantly on the new VGN-Z48GD which now comes with a Solid State Drive (SSD) with capacity of 256GB (128GB x 2) RAID 0. Its higher read/write speed access allows smooth processing of data, and is 5 times faster compared to the usual Hard Disk Drive (HDD). Best of all, the SSD makes the notebook more durable as it has a higher ability to endure extreme shock since there is no motor, magnetic head, or disc for the SSD. This reduces the chance of failure including the loss of data caused by damaging the moving parts, giving users that much-needed peace of mind at work.

Stylish yet robust design

The VGN-Z46GD features limited edition –Shadow Border pattern painting on the cover panel, differentiating instantly the quality VAIO design. On the panel, users will notice multiple border lines anomaly crossing over back and forth, but in reality, it is the same shade of paint but painted over in different thickness.

The extreme compact VAIO Z packs the full functionality of a larger PC into an ultra-light form weighing at merely 1.48 kg (VGN-Z48GD and VGN-Z46GD). By utilising a new 12-layer high-density mounting board, the VAIO Z delivers powerful performance in a stylishly compact yet robust footprint. The tough carbon fibre body with aluminium construction ensures that the VAIO Z is rigorous enough against physical shock.

Superbly high performance

The VAIO Z incorporates the Intel® Centrino®2 Processor Technology Intel® Core™2 Duo Processor P9700 (2.80 GHz) coupled with Windows Vista® Business 64-bit, allowing for powerful performance and efficient operation. The memory is upgraded to 6GB DDR3 SDRAM. The new models also comprised of two graphics processors – NVIDIA® GeForce® 9300M GS GPU for full graphics acceleration and Mobile Intel® Graphics Media Accelerator 4500MHD for mobile situations. In order to boost battery life as much as possible, the VAIO Z has a special Stamina Mode switch which allows the user to select between two graphics chipsets.

To ensure really seamless wireless operation, the VAIO Z is equipped with IEEE802.11a/b/g/Draft n wireless LAN. To provide security for mobile use, the VAIO Z is also equipped with a convenient fingerprint sensor and TPM (Trusted Platform Module) security chip to provide security which is especially important for mobile users.

Superior picture quality

The VAIO Z offers a generous 13.1-inch Clear Tough LCD [Rich Colour] display (16:9), which delivers HD picture quality at WXGA^{++} (1600 x 900 pixels) resolution. It also boosts brightness and contrast and ensures vivid colours, delivering 100% colour fidelity – equivalent to 100% of the NTSC format colour space (u'v' measurement) – so colours are true to life. The VAIO Z offers more workspaces than standard size displays, offering users added room for opening documents or multiple Explorer windows. The VGN-Z47GD comes with a built-in Blu-ray Disc™ Drive that can record, store and play back high-capacity Blu-ray discs in full HD 1080p resolution.

The VGN-Z48GD/X and VGN-Z47GD/X are now available at the suggested retail price of HK$19,980 while the VGN-Z46GD/B sells for HK$13,980. The limited edition Shadow Border pattern painting (VGN-Z46GD/U) is exclusively available at Sony Style stores and Sony Style online at HK$14,980.

closer to you.

The evolution continues. VAIO now becomes your indispensable partner, integrating closely with all aspects of your lifestyle. From the sheer pleasure of opening the package and seeing the improved quality and design, to stress-free support and superlative customer service, you will fully appreciate the polished intelligence that is the hallmark of new VAIO. In essence, a wonderfully moving experience that brings VAIO closer to you.

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Key specifications of the VGN-Z48GD/X, VGN-Z47GD/X and VGN-Z46GD/B/U are as below:

Model	**VGN-Z48GD/X**	**VGN-Z47GD/X**	**VGN-Z46GD/B/U**
Processor Technology	Intel® Centrino®2 Processor Technology Intel® Core™2 Duo Processor P9700 (2.80 GHz)[*1*2] Intel® WiFi Link 5100 Mobile Intel® GM45 Express Chipset		
Operating System	Genuine Windows Vista® Business 64-bit (English Version) with Service Pack 1 Traditional Chinese, Simplified Chinese, Arabic and Thai Language Pack		
Processor System Bus	1066MHz		
Memory Bus	1066MHz		
Cache Memory	6MB		
Main Memory	6GB DDR3 SDRAM[*3] (upgradeable up to 8GB[*4]) 2 SO-DIMM slots (The pre-installed memory module uses two)		
Hard Disk Drive	256GB[*5](128GB x 2, Serial ATA, RAID 0 support[*6]) (SSD/Flash Memory)	320GB[*5] (Serial ATA, 7200rpm)	
Optical Disc Drive	**DVD±RW/±R DL/RAM Drive:** Maximum Reading Speed DVD+R, DVD+R DL, DVD-R, DVD-R DL, DVD+RW, DVD-RW, DVD-ROM: 8x / DVD-RAM: 5x / CD-ROM, CD-R, CD-RW: 24x Maximum Writing Speed DVD+R, DVD-R, DVD+RW: 8x / DVD+R DL, DVD-R DL: 4x / DVD-RW: 6x / DVD-RAM: 5x / CD-R: 24x / CD-RW: 16x	**Blu-ray Disc™ Drive:** Maximum Reading Speed BD-ROM, BD-R, BD-R DL, BD-RE, BD-RE DL: 2x / DVD+R, DVD-R, DVD-ROM: 8x / DVD+R DL, DVD-R DL, DVD+RW, DVD-RW: 6x / DVD-RAM: 5x / CD-ROM, CD-R, CD-RW: 24x Maximum Writing Speed BD-R, BD-RE: 2x / BD-R DL, BD-RE DL: 1x / DVD+R, DVD-R: 8x / DVD+RW, DVD-RW: 4x / DVD-RAM: 5x / CD-R: 16x / CD-RW: 10x	**DVD±RW/±R DL/RAM Drive:** Maximum Reading Speed DVD+R, DVD+R DL, DVD-R, DVD-R DL, DVD+RW, DVD-RW, DVD-ROM: 8x / DVD-RAM: 5x / CD-ROM, CD-R, CD-RW: 24x Maximum Writing Speed DVD+R, DVD-R, DVD+RW: 8x / DVD+R DL, DVD-R DL: 4x / DVD-RW: 6x / DVD-RAM: 5x / CD-R: 24x / CD-RW: 16x
Graphics Accelerator	NVIDIA® GeForce® 9300M GS notebook graphics processing unit (GPU) (SPEED MODE) / Mobile Intel® Graphics Media Accelerator 4500MHD (STAMINA MODE)		
Dedicated Video Memory	256 MB (SPEED MODE)		
Display	13.1" wide (WXGA++: 1600 x 900) TFT Colour Display (Clear Tough LCD [Rich Colour])		
Interfaces	High Speed USB 2.0 x 2・i.LINK (IEEE 1394) S400 (4pin)・Network (RJ-45) Connector (10Base-T/100Base-TX/1000Base-T)・Headphone Jack (stereo mini)・Microphone Jack (stereo mini)・Monitor Connector (Analogue RGB, mini D-sub 15 pin)・HDMI Output Connector・Memory Stick™ slot (Standard/Duo Size, MagicGate, Memory Stick PRO™ and High-speed data transfer compatible)[*7] and SD Memory Card slot (SDHC and MMC compatible)[*8]・DC IN・Docking Station Connector		

Wireless LAN	Integrated Wireless LAN IEEE 802.11a/b/g/Draft n[*9] Max. data rate: 11Mbps(802.11b) / 54 Mbps(802.11a/g) / 300Mbps (Draft 802.11n)[*10] Frequency: 5GHz (802.11a/Draft n), 2.4GHz (802.11b/g/Draft n)		
Bluetooth®	Bluetooth® standard Ver. 2.1+EDR		
Modem	V.92 and V.90 Compliant		
PC Card Slot	ExpressCard™/34 x1		
Fingerprint Sensor	Yes		
Security Chip	TCG Ver.1.2 compliant Trusted Platform Module (TPM)		
Camera	Effective pixels: 640 x 480		
Audio	Intel® High Definition Audio compatible・3D audio (Direct Sound 3D support)・ Built-in stereo speakers・Built-in monaural microphone		
Keyboard/Input Device	Approx. 19mm key pitch / 2.5mm keystroke・82keys・Intelligent Touchpad		
Battery Life[*11]	Bundled battery: VGP-BPS12 Lithium-ion battery: up to 5 hours of use Optional long battery: VGP-BPL12 Lithium-ion battery: up to 7.5 hours of use		
Dimensions (WxHxD)	314 x 24.5-33.0 x 210mm		
Weight	1.48kg (including the supplied battery)	1.53kg (including the supplied battery)	1.48kg (including the supplied battery)
Included Software	**Video Edit/Playback:** VAIO Movie Story, Adobe® Premiere® Elements® 7, VAIO Edit Components, WinDVD for VAIO **DVD Creation:** Click to Disc, Click to Disc Editor **Music:** VAIO MusicBox, SonicStage Mastering Studio **Still Image/Photo:** PMB (Picture Motion Browser), Windows® Photo Gallery, Adobe® Photoshop® Elements® 7 **Home Network:** VAIO Media plus **Word Processor/Spreadsheet:** 60-day Trial Version of Microsoft® Office Professional 2007[*13] **Tool:** Roxio Easy Media Creator, Adobe® Reader® 9, McAfee PC SecurityCenter 30-day Free Trial[*13] **Utilities:** VAIO Control Center, VAIO Presentation Support, Infineon TPM Professional Package (Installer), Protector Suite QL, WebCam Companion, Magic-i™ Visual Effects **Support:** VAIO Recovery	**Video Edit/Playback:** VAIO Movie Story, Adobe® Premiere® Elements® 7, VAIO Edit Components, WinDVD BD for VAIO **BD/DVD Creation:** Click to Disc[*12], Click to Disc Editor[*12] **Music:** VAIO MusicBox, SonicStage Mastering Studio **Still Image/Photo:** PMB (Picture Motion Browser), Windows® Photo Gallery, Adobe® Photoshop® Elements® 7 **Home Network:** VAIO Media plus **Word Processor/Spreadsheet:** 60-day Trial Version of Microsoft® Office Professional 2007[*13] **Tool:** Roxio Easy Media Creator, Adobe® Reader® 9, McAfee PC SecurityCenter 30-day Free Trial[*13] **Utilities:** VAIO Control Center, VAIO Presentation Support, Infineon TPM Professional	**Video Edit/Playback:** VAIO Movie Story, Adobe® Premiere® Elements® 7, VAIO Edit Components, WinDVD for VAIO **DVD Creation:** Click to Disc, Click to Disc Editor **Music:** VAIO MusicBox, SonicStage Mastering Studio **Still Image/Photo:** PMB (Picture Motion Browser), Windows® Photo Gallery, Adobe® Photoshop® Elements® 7 **Home Network:** VAIO Media plus **Word Processor/Spreadsheet:** 60-day Trial Version of Microsoft® Office Professional 2007[*13] **Tool:** Roxio Easy Media Creator, Adobe® Reader® 9, McAfee PC SecurityCenter 30-day Free Trial[*14] **Utilities:** VAIO Control Center, VAIO Presentation

	Center, VAIO Update, VAIO Data Restore Tool	Package (Installer), Protector Suite QL, WebCam Companion, Magic-i™ Visual Effects **Support:** VAIO Recovery Center, VAIO Update, VAIO Data Restore Tool	Support, Infineon TPM Professional Package (Installer), Protector Suite QL, WebCam Companion, Magic-i™ Visual Effects **Support:** VAIO Recovery Center, VAIO Update, VAIO Data Restore Tool
Supplied Accessories	AC Adaptor (VGP-AC19V32) ・Lithium-ion battery (VGP-BPS12)[*15] ・Cleaning Cloth Windows® XP Professional Install Disc (only applicable to VGN-Z47GD/X and VGN-Z46GD/B/U)		
Local Warranty and International Repair Service	Local warranty: Two years International repair service: One year		Local warranty: One year International repair service: One year

Features and specifications are subject to change without notice.

Remarks:

*1 CPU speed will be reduced under certain operating conditions.

*2 Intel® Virtualization Technology is not supported.

*3 If memory modules of the same capacity are installed to both of the two memory module slots, the supported dual channel mode provides better performance.

*4 Sony does not guarantee compatibility with memories of other brands.

*5 GB means one billion bytes when referring to hard disk drive (for VGN-Z46GD and VGN-Z47GD only) / flash memory (for VGN-Z48GD only) capacity. Accessible capacity may vary. A portion of hard disk space (for VGN-Z46GD and VGN-Z47GD only)/ space (for VGN-Z48GD only) is reserved as a recovery partition.

*6 Set to RAID 0 (Striping) at initial shipment setting. It will be displayed as 256GB x 1 on the Windows Operating System.

*7 Compatibility confirmed with Sony branded “Memory Stick” media only.

*8 The copyright protection of the SD memory card is not supported.

*9 The maximum communication distance can vary depending on the obstacles or the distance between the communication devices, the radio waves, the operating system or the software being used.

*10 The communication speed varies depending on the distance between communication devices, existence of obstacles between such devices, the device configuration, the radio conditions, and the software in use. In addition, communication may be cut off depending on the radio conditions.

*11 Estimated battery life (under JEITA Battery Run Time Measurement Method ver.1.0, measurement method (a)). Actual battery life may vary with different operating conditions and settings. For further details, please visit http://www.sony-asia.com/support/vaio/jeita

*12 Depending on disc type, “Click to Disc” and “Click to Disc Editor” require a maximum of 50GB HDD capacity in addition to the space required for source content.

*13 This software is intended for evaluation purposes only. It must be activated before actual use, and the activation procedures will be detailed during initial launch. Activation requires Internet access, which enables certain functions included. This software has an expiration date of 60 days from date of first use, at which time the software will operate under reduced-functionality mode, limiting options and operations.

*14 Free use of 30 days. Further update will be charged.

*15 This product may only function with a genuine Sony battery designed for this model.

<<Important notice when playing back HD contents>>

[Supporting Blu-ray Disc]

- The Blu-ray Disc™ Drive does not support BD-RE 1.0 discs and Blu-ray cartridge discs.

[Blu-ray Disc Playback]

- Requires compatible high-definition display for high definition playback. Playback of AACS protected media may require an HDCP compliant output and HDCP compliant display.
- You may need to connect to the Internet when playing copyright protected Blu-ray discs.
- Region settings are required for Movies and BD-ROM contents. If the region setting and the region of the disc do not match, playback is not possible.

[AVCHD Playback]

- Depending on system environment, you may find sound interruptions and/or dropped frames during AVCHD playback.

<Restriction on OS Downgrade to Windows® XP>

Note that certain features and software of the followings are unusable after downgrading from Windows Vista® to Windows® XP (applies to the VAIO models equipped):

- Blu-ray Disc™ read/write function (excluding CD/DVD read and write functions)
- VAIO HDD Protection
- SSD RAID function
- Sony original audio and visual software
- Non-Sony software (e.g. InterVideo WinDVD, etc.)
- Instant Mode
- Plug and Display function
- Zoom function by Fn+F9/F10
- VAIO Recovery Tool
- Dynamic Hybrid Graphic system (need to reboot for changing the speed /stamina mode)
- Noise cancelling function
- Ambient light sensor function
- Quick Charge function
- HDMI function
- No manual available on how to use Windows® XP

Addition to the listed above, other features and software may not be used.

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small production changes in the course of our company's policy of improvement through research and design might not
necessarily be included in the specifications. E&OE. Actual models may differ slightly in appearance to illustrations provided.